Flow-FUM05B

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Features

- Measurement accuracy 1%
- Converter IP rating IP 67, transducer IP rating IP 68
- Wide measurement range, pipe size from DN15 mm to DN6000 mm
- Connect the temperature transducer can finish the heat / energy measurement

| Introduction |

The FUM05B flowmeter can be virtually applied to a wide range of long-term online measurement. Converter IP rating IP67, transducer IP rating IP68. A variety of liquid applications can be accommodated: ultra-pure liquids, potable water, chemicals, raw sewage, reclaimed watere, cooling water, river water, plant, effluent.etc

| Applications |

Oil and gas industries / Chemical / Pharmaceutical / Food and beverage / Metal / Mining / Pulp and paper / Wastewater industries





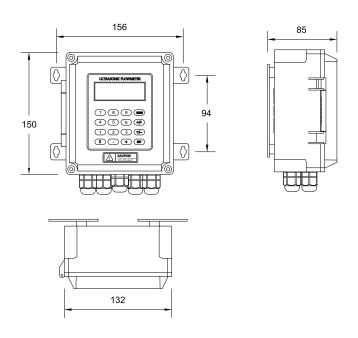
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| Specification |

Converter		Pipe installa	ation condition
Principle	Transit-time Ultrasonic Flow Meter	Pipe material	Steel, Stainless Steel, Cast Iron, Copper,
Accuracy	±1%		Cement, Pipe, PVC, Aluminum, Glass steel
Data interface	RS-485 , Modbus		product, liner is allowed
Signal output	4 20 mA, electrical resistance 0 1 K, accuracy 0.1%	Pipe diameter	15 6000 mm
	OCT pulse output (pulse width 1000 ms, default is 200 ms)	Straight pipe	Transmitter installation should be satisfied:
	Relay output		upstream 10 D, downstream 5D, 30D
	4 20 mA, accuracy 0.1%		from the pump
Signal input	Connect the temperature transducer Pt100		
Display	2x20 character LCD with backlight	Operating e	nviroment
Power supply	DC 8 36 V or AC 85 264 V	Temperature	Converter: -20 +60°C
Power consumption	1.5 W		Flow transducer: -30 +160°C
		Humidity	Converter: 85%RH
Measuring mediu	ım		Flow transducer∶Water depth ≦2 m
Type of liquid	Single liquid can transmit sound wave		
	such as Water, Oil, Alcohol, Beverage,	Material	
	Ultra-pure liquid, etc.	Special cable	Twisted-pair cable, generally, the length
Temperature	-30 +160°C		under 50 meters;Select the RS-485,
Turbidity	≦10000 ppm (Less bubble)	Dimension	transmission distance can over 1000 m
Flow rate	0 ±10 m/s		132x150x85 mm (Converter)

^{*}Please make sure the product and the device which connect with RS-485 are on common ground, avoid damaged product.

| Dimension | Unit: mm







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Measuring Diagram-Clamp |

Flow Measurement

Heat Measurement

Features

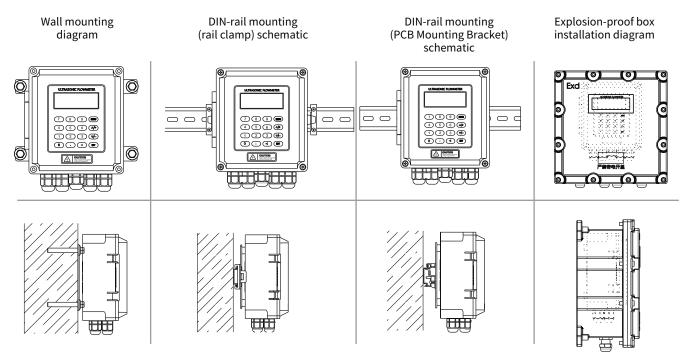




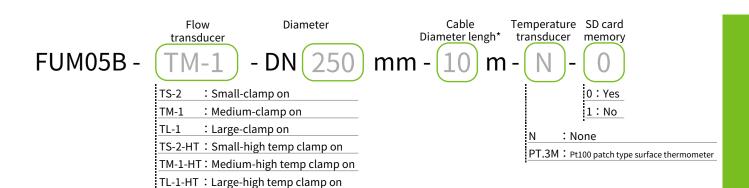
- No need to cut off water, no pressure loss
- Connect clamp-on temperature,
 transducer, can finish the heat / energy
 measurement
- Easy for installation

Multiple Installation Methods

Host can choose multiple installation method, including select special accessories for wall mounting; rail clips or APCB mounting brackets for rail mounting. Host can be installed Ain explosion-proof box.



Ordering Guide |



^{*}Two clamp's cable total length. Example: Cable length selects 20 m, it is mean 10 m cable of each clamp.



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| Optional Transducers |

Please choose the suitable transducer, according to different liquid pipe condition and installation method, (Please refer to the measuring diagram P3).

Types	Picture	Model	Measurement range	Temperature	Dimension
Clamp on		TS-2 (Small) TM-1 (Medium) TL-1 (Large)	DN25 100 DN50 700 DN300 6000	-30 +90°C	45x25x32 mm 64x39x44 mm 97x54x53 mm
High temp clamp on		TS-2-HT (Small) TM-1-HT (Medium) TL-1-HT (Large)	DN25 100 DN50 700 DN300 6000	-30 +160°C	45x25x32 mm 64x39x44 mm 97x54x53 mm

Optional Temperature Transducer |

Connect the temperature transducer can finish the heat / energy measurement

Picture	Specification	Model	Measurement range	Temperature	Cut of water	Accuracy
0	Pt100 Patch Type Surface Thermometer	PT.3M	< DN50	-40 +160°C	No	100° C $\pm 0.8^{\circ}$ C Exact match temperature difference $\leq 0.1^{\circ}$ C

Optional SD card memory |

Convenience for long-term and large data storage. Available to do the data processing like tabulation, statistical, data analysis, printing reports and production flow curve by using data analysis software.



| Additional Option Test Report | For more detailed information please contact us.



YUDEN-TECH CO.,LTD. Calibration Laboratory - (ILAC / TAF) Test report. (TAF accreditation: 3032, complying with ISO / IEC 17025) TAF has mutual recognition arrangement with ILAC MRA

Project	Measurand level or range	
Flow transmitter	Water flow rate: 2.54 m ³ /h30 m ³ /h (42.3 L/min 500.0 L/min)	
	Water flow velocity: 0.2 m/s 3 m/s	

ISO 9001

Project	Measurand level or range	
Flow	Water flow velocity: 0.0 m/s 5 m/s	
	Water flow rate: ≦ 580 L/min	